



NTSB TRAINING CENTER

Course Agenda

Biomechanics of High-Impact Injuries
NTSB Training Center, Ashburn, Virginia
April 2-3, 2007

Day 1 – Fundamental Tools

Time	Topic	Presenter
8:45-9:00	Introduction/Welcome	Richard Kent, Ph.D.
9:00-9:15	Terminology and General Principles	Richard Kent, Ph.D.
9:15-10:15	Skull and Brain Injury Biomechanics	Thomas Gennarelli, M.D.
10:15-10:30	Refreshment Break	
10:30-11:30	Cervical Spine Injury Biomechanics	Frank Pintar, Ph.D.
11:30-12:30	Thoracoabdominal Injury Biomechanics	Richard Kent, Ph.D.
12:30-1:30	Lunch	
1:30-2:15	Thoracic and Lumbar Spine Biomechanics	Cameron “Dale” Bass, Ph.D.
2:15-3:15	Biomechanics of the Extremities	James Funk, Ph.D.
3:15-3:30	Refreshment Break	
3:30-4:30	Autopsy-Based Assessment of Injury Mechanics	Richard Bandstra, Ph.D.
4:30-5:30	Open floor/Panel discussion with faculty	All faculty
5:30	Adjourn	

Day 2 – Advanced Topics

Time	Topic	Presenter
8:45-9:00	Introduction/Welcome/Announcements	Richard Kent, Ph.D.
9:00-10:30	Biomechanics of Pedestrians and Other Vulnerable Road Users	Jeff Crandall, Ph.D.
10:30-10:45	Refreshment Break	
10:45-12:15	High-Rate Injury Biomechanics – Ballistics and Blast	Cameron “Dale” Bass, Ph.D.
12:15-1:15	Lunch	
1:15-2:15	Restraint System Biomechanics – Minimizing Whole-Body Risk	Richard Kent, Ph.D.
2:15-2:30	Refreshment Break	
2:30-3:30	Aviation Injury Causation Analysis	James Raddin, M.D., S.M.
2:30-4:30	Tutorial on investigation and reconstruction of TWA 800	NTSB faculty
4:30	Adjourn	